

Figure 1

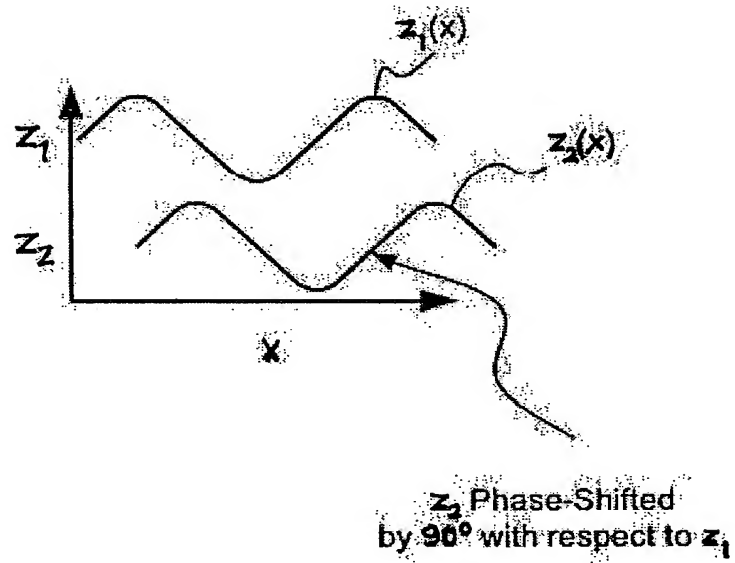


Figure 2

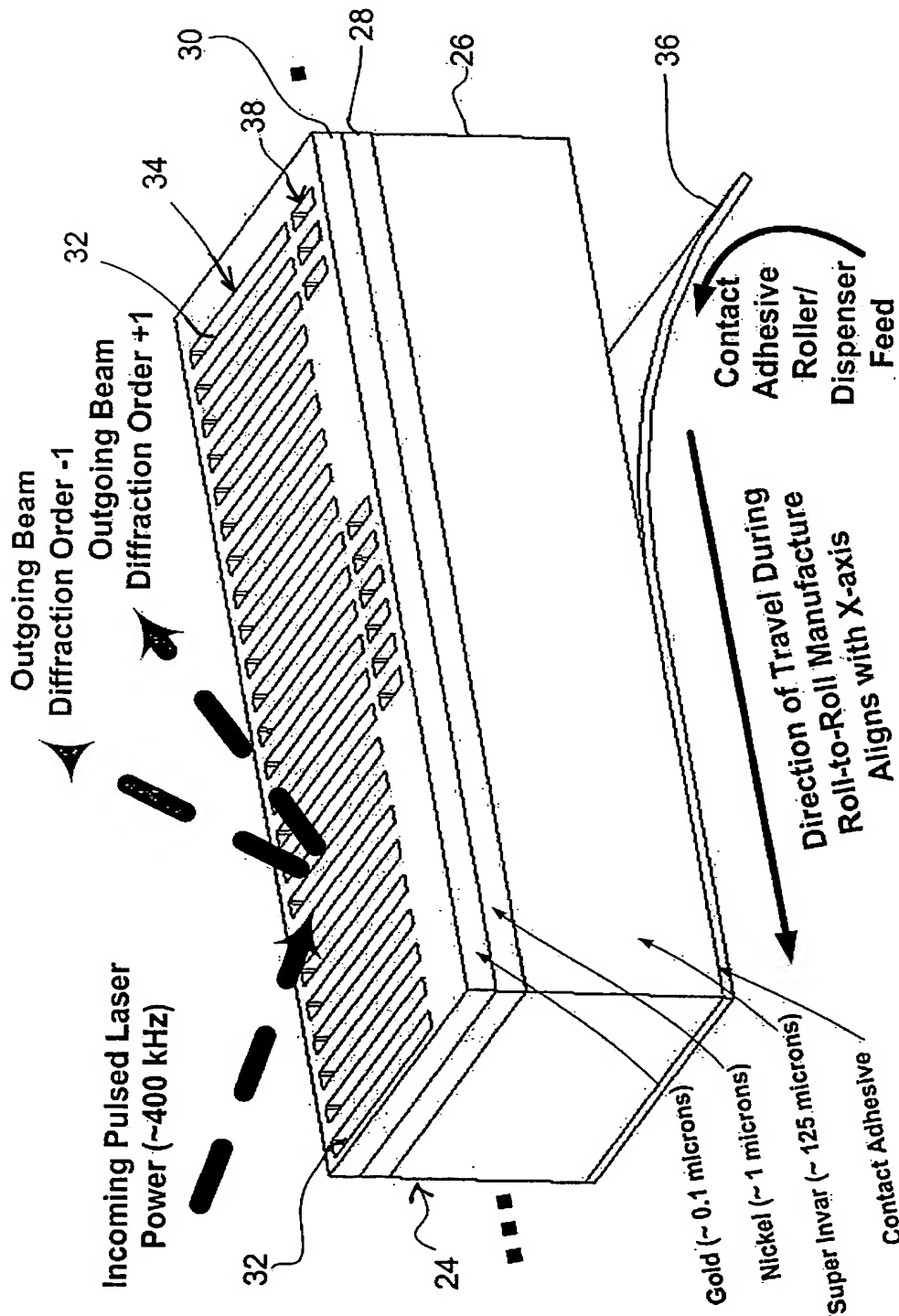


Figure 3

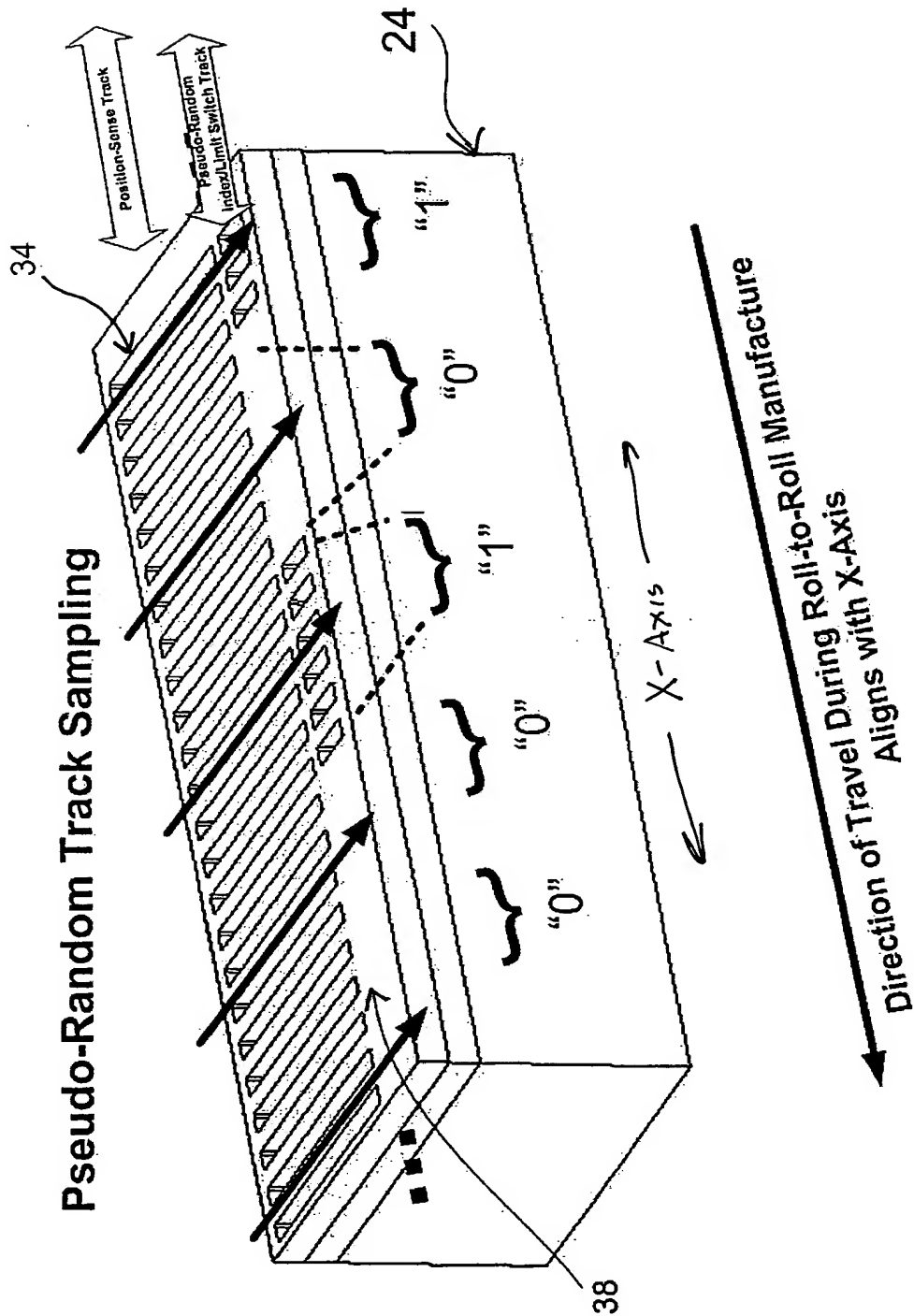


Figure 4

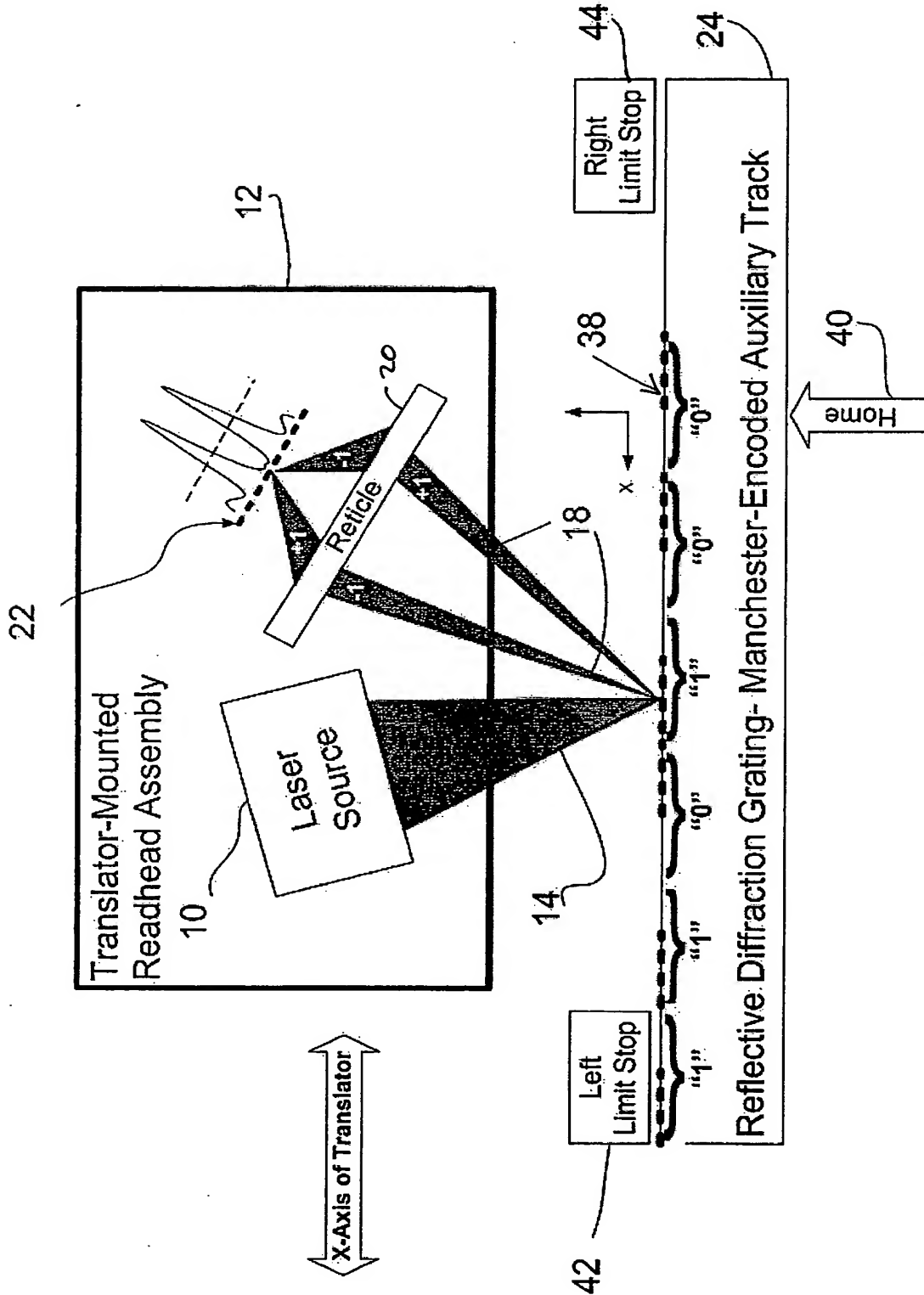


Figure 5

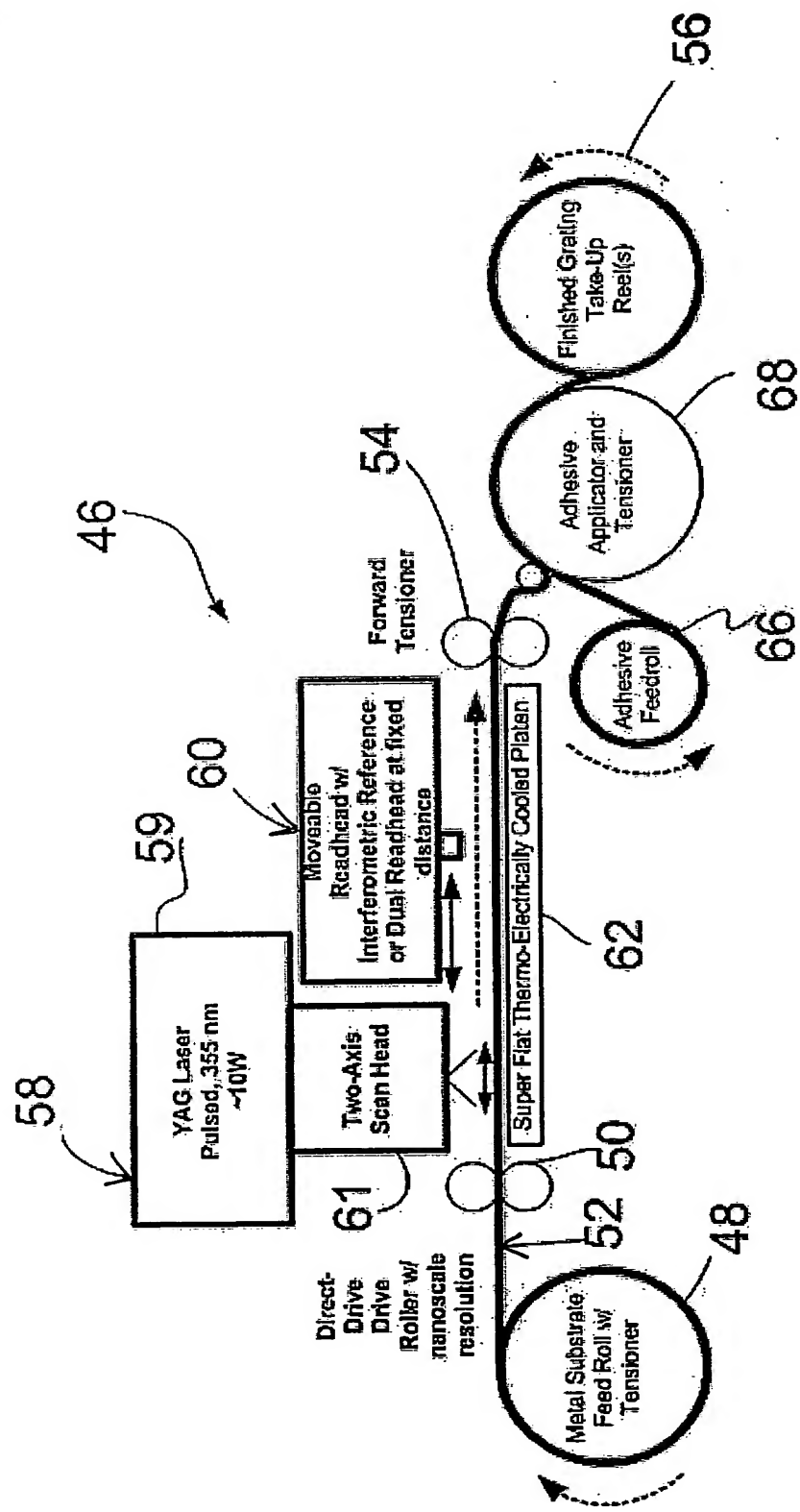


Figure 6

# Comparison of Laser Power (Exponential Discharge ( $\tau=1$ ns) vs. Square Wave (7 ns) with equivalent Pulse Energy)

Front End Power Amplification ( $\sim 7:1$ )  
 achieves equivalent pulse energy as Square Wave  
 (Accelerates breaking of atomic bonds within  
 top two layers of grating)

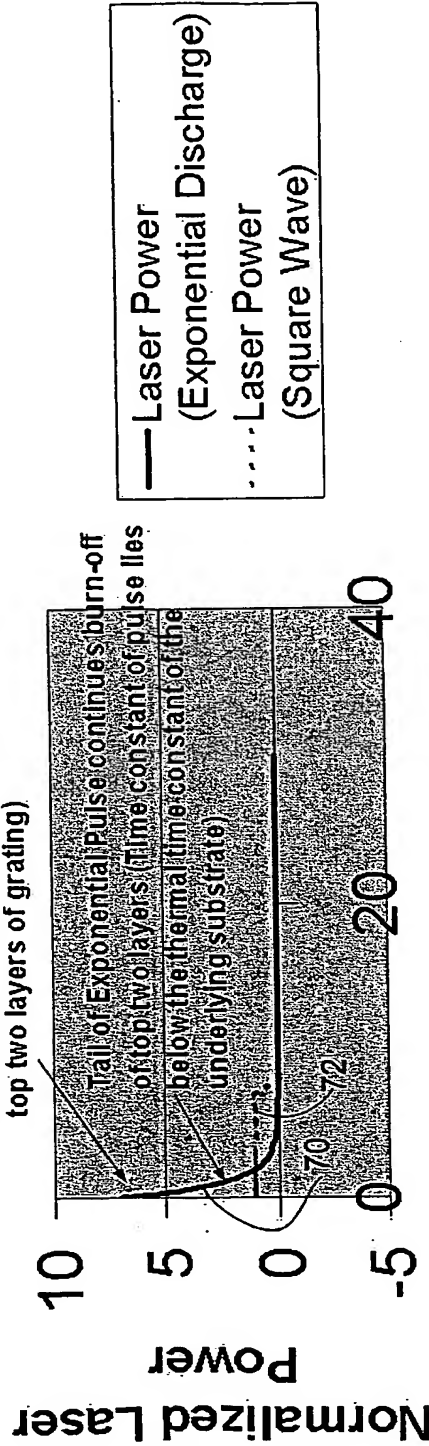
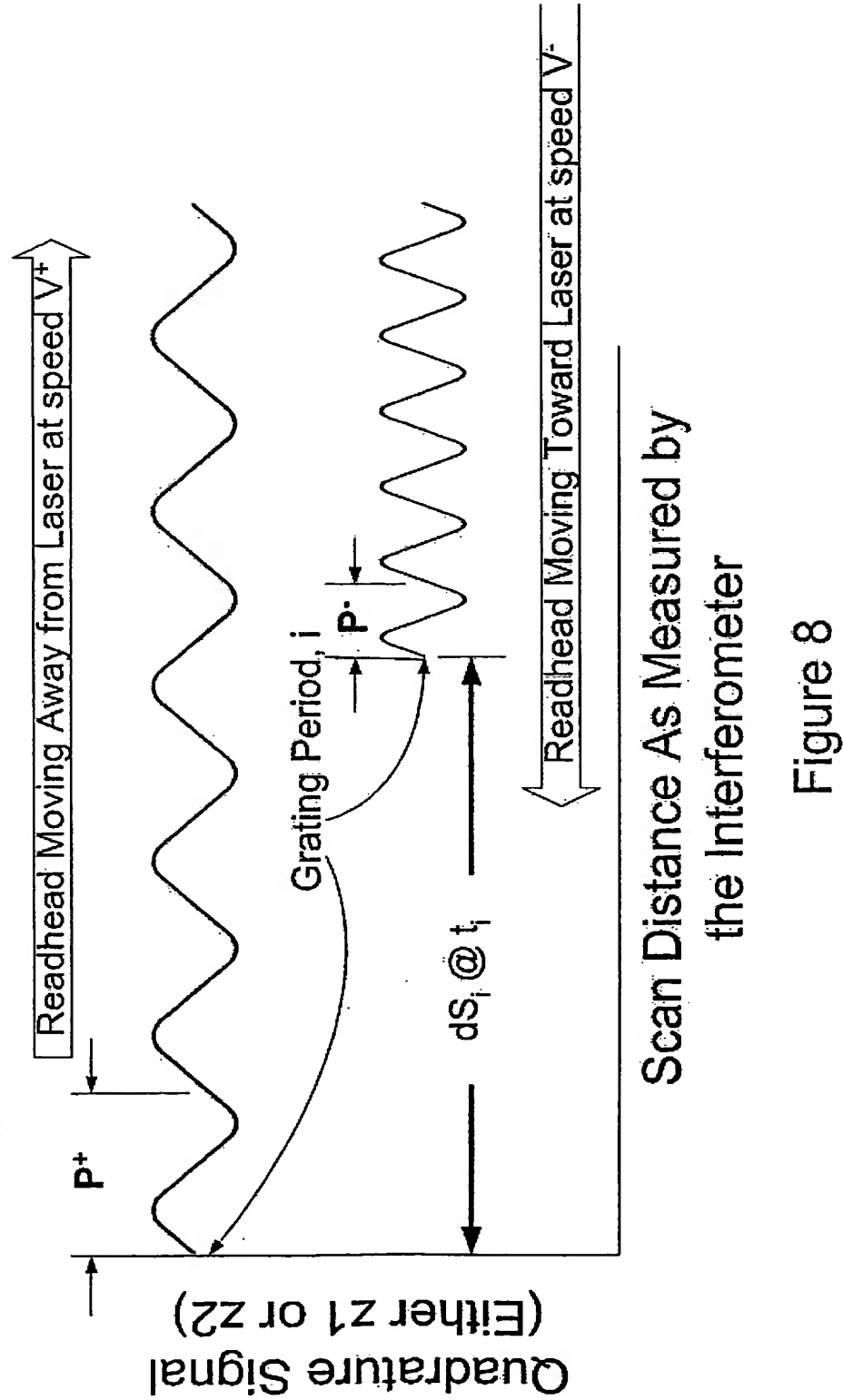


Figure 7





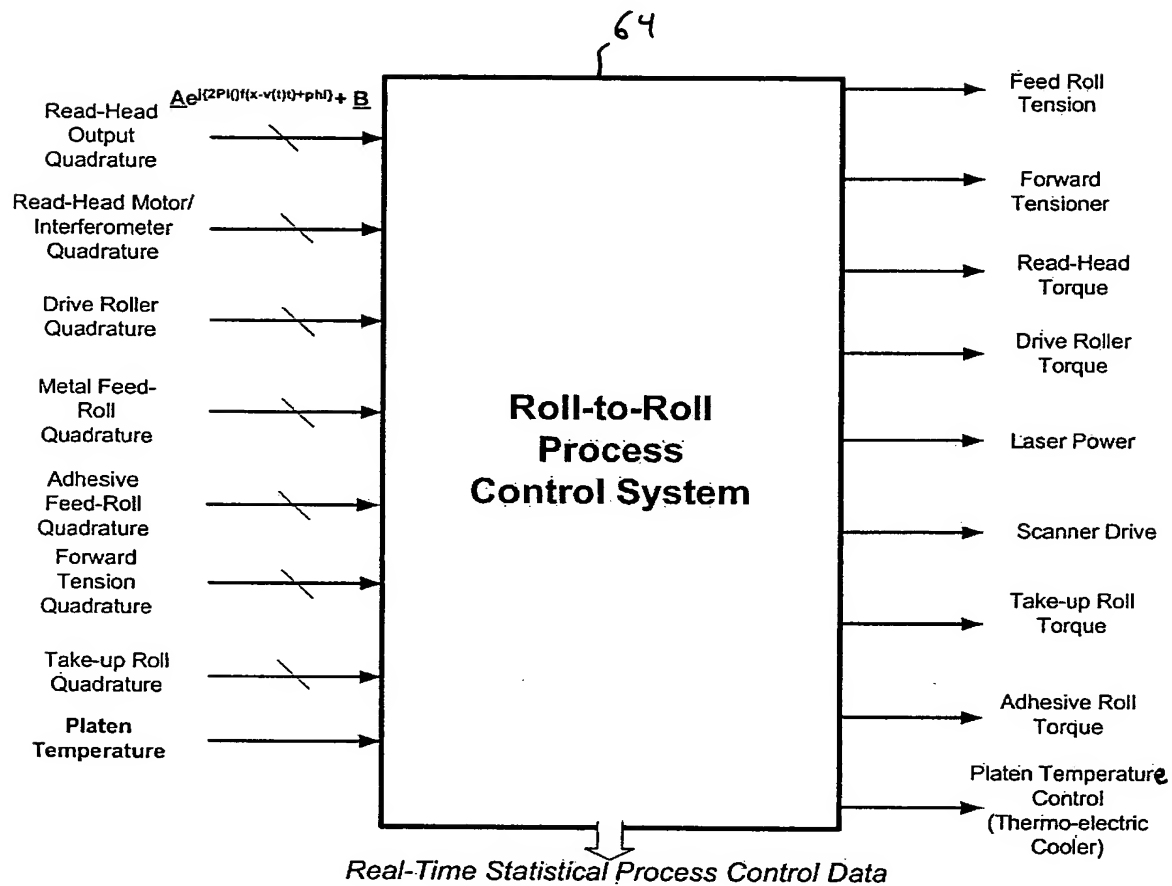


Figure 9